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May 1, 1983

Dear Bob Fabris,

Below is a listing in AstroBASIC of the "Jailer Problem" in the June 1983 issue of Popular Computing, page 211.

Line 3 and 5, below, are equivalent to 3IF K/J=INT(K/J) THEN S=S+1, and 5IF S/2=INT(S/2) THEN 7.

THE JAILER PROBLEM
adapted for AstroBasic

```
  1 CLEAR;NT=0;SM=4;C=0;K=1;GOSUB 9
  2 FOR K=2 TO 100;S=0;FOR J=1 TO K
 *3 N=K/J;IF RM=0 S=S+1
  4 NEXT J
 *5 N=S/2;IF RM=0 GOTO 7
  6 GOSUB 9
  7 NEXT K
 ✱8 PRINT "__→",#2,C,"_CELLS",;GOSUB 10;STOP
 ✱9 PRINT "__CELL_#",#3,K,;GOSUB 10;C=C+1;RETURN
✱10 PRINT "_WILL_BE_OPEN";RETURN
```

*K/J is the same as K÷J

✱_is the same as (SPACE)

The Astrocade takes about 2.75 minutes to complete this program. I figure that the Astrocade does about 485 computations. That equals about 176 computations per minute or 3 per second. Each computation takes about 333 milliseconds.

Sincerely,

Fred Rodney

Fred Rodney

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